NGA
NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY

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RESEARCH & DEVELOPMENT CAREERS

RESEARCH DESIGNED FOR MISSION

The National Geospatial-Intelligence Agency (NGA) is a U.S. intelligence and combat support agency that provides policymakers, warfighters, intelligence professionals and first responders key information and insights. Through advanced Research and Development, or R&D, a career with NGA Research helps protect our nation and our world.

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RESEARCH **OPPORTUNITIES**

Research and Development Occupation

Our intelligence officers use the scientific method to conduct, lead, and manage GEOINT R&D programs that use breakthrough technologies to support the national security mission and attack real-world problems with expertise, innovation, and creativity.

- **R&D Scientist**
- **Science and Technology Programmatic Officer**

Scientific Focus Areas

FOUNDATION – Advances capabilities and disruptive technologies to observe, extract, represent, and attribute natural and manmade features, terrain, and bathymetry to characterize the earth and its populations.

GEOPHYSICS – Employs physics and mathematics to improve knowledge of the geospatial-temporal representations of physical and geometric characteristics of the Earth's surface, subsurface, and geospace.

GEOSPATIAL CYBER – Conducts research to derive meaningful intelligence from geospatial information associated with data in cyberspace.

IMAGE AND VIDEO – Researches data science, computer vision and information and retrieval techniques for content analysis and heterogeneous data processing; employs rigorous testing and evaluation for optimal alignment of data, technology and tradecraft.

PREDICTIVE ANALYTICS – Encompasses techniques from data mining, predictive modeling, and machine learning to analyze current and historical facts and make predictions about future or other unknown events.

RADAR – Exploits unique phenomenologies, explores innovative collection methods, and develops robust automation algorithms to improve intelligence in denied areas under all-weather, day-night conditions.

SPACE – Develops and applies emerging technologies to assure persistent and reliable GEOINT can be delivered by assets in space.

SPECTRAL SCIENCE – Enriches GEOINT by developing and transitioning capabilities for the extraction of intelligence content from spectral imagery sources.

TO QUALIFY

Relevant degrees may include: artificial intelligence, computational/computer science, computer vision, data science, electrical engineering, machine learning, physics, remote sensing, spectral science or other related area of study.

Relevant experience may include: 24 semester (36 quarter) hours in science, mathematics and/or a related engineering science such as astronomy, cartography, chemistry, computer science, dynamics, electrical engineering, geodesy, geography, geology, geophysics, geospatial information systems, mathematics, orbital mechanics, photogrammetry, physics, remote sensing or surveying.

KEY COMPETENCIES

Key competencies may include, but are not limited to: data analysis, engineering, quantitative and qualitative modeling, scientific method, project management, strategic planning, technical communication and technology evaluation.

Relevant experience in a closely-related area may be considered in lieu of a relevant degree.

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